The annual DaWaK conference is a high quality forum for researchers, practitioners and developers in the field of Big Data Analytics, in a broad sense. The objective is to explore, disseminate and exchange knowledge in this field through scientific and industry talks. The conference covers all aspects of DaWaK research and practice, including data lakes (schema-free repositories), database design (data warehouse design), data management (tables, text), query languages (SQL and beyond), parallel systems technology (Spark, MapReduce), theoretical foundations and applications, bringing together active researchers from the database systems, cloud computing, programming languages and data science communities worldwide, from both academia and industry.

Submissions presenting research work on both systems and theoretical aspects of Big Data storage and analytics are highly encouraged. Submissions on industrial applications and interesting experiences involving big data technology are also encouraged. Papers revisiting classical data mining problems from a big data perspective are encouraged. Generic machine learning or statistical analysis papers without systems, scalability or parallel processing aspects are discouraged. The topics includes, but it not limited to, the following list:

- Theoretical Models for Extended Data Warehouses and Big Data
- Schema-free data repositories
- Modeling diverse big data sources (e.g. text)
- Conceptual Model Foundations for Big Data
- Query Languages
- Analytic language interfaces
- Query processing and Optimization
- Cost Models for advanced optimization
- Semantics for Big Data Intelligence
- Big Data Analytics
- User and programming interfaces
- Data warehouses, data lakes
- Big Data Storage and Indexing
- Big Data Analytics: algorithms, techniques, and systems
- Big Data Quality and Provenance Control
- Social Networking and Graph Data Management
- Parallel Processing
- Distributed system architectures
- Exploiting hardware to accelerate processing: multicore CPUs, cache memory, GPUs
- Cloud Infrastructure to manage big data
- Parallel DBMS technology
- Scalability and Parallelization using MapReduce, Spark and related systems
- Graph analytics, including social networks and the Internet
- Visualization
- Big Data Search and Discovery
- Big Data Management for Mobile Applications
- Analytics for Unstructured, Semi-structured, and Structured Data
- Analytics for Temporal, Spatial, Spatio-temporal, and Mobile Data
- Analytics for Data Streams and Sensor Data
- Analytics for Big Multimedia Data
- Real-time/Right-time and Event-based Analytics
- Privacy and Security in Analytics
- Reliability and Fault tolerance
- Big Data Application Deployment
- Pre-processing and data cleaning to build analytic data sets
- Integration of Data Warehousing, OLAP and Data Mining
- Evaluating, Consolidating, and Explaining Discovered Knowledge
- Interactive Data Exploration/Visualization and Discovery
- Analytic workflows

Program Committee Chairs:

Carlos Ordonez; Houston University, USA
Ladjel Bellatreche, ISAE-ENSMA, France

Paper Submission Details

Authors are invited to submit research and application papers representing original, previously unpublished work. Papers should be submitted online in PDF format at the DaWaK 2018 Submission site, starting in January 2018.

Submissions must conform to Springer's LNCS format and should not exceed 14 pages. Papers may be accepted as long (14 pages) or short papers (8 pages). All accepted papers will be published in LNCS by Springer-Verlag.

Authors of selected best papers from DaWaK 2018 will be invited to submit an extended version for special issues in the following prestigious journals: Distributed and Parallel Databases, LNCS Transactions on Large-Scale Data and Knowledge-Centered Systems and Journal of Concurrency and Computation: Practice and Experience, Wiley.

For further inquiries, please contact the DaWaK 2018 PC chairs
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